The following Listing of the Claims will replace all prior versions and all prior listings of the claims in the present application:

Listing of The Claims:

1. to 33. (Canceled)

34. (Currently Amended) An implant for treating viable tissue comprising:

a scaffold structure implantable within the tissue, the scaffold having a geometry adapted to be retained within the tissue, the scaffold structure being configured to mechanically trigger an injury response in the tissue that leads to angiogenesis in the tissue;

thrombus associated with the implant, the thrombus being loaded with [[a]] therapeutic material adapted to therapeutically treat the tissue whereby the thrombus provides a host matrix for the therapeutic material.

35. (Previously Presented) An implant as defined in claim 34 further comprising an angiogenic substance associated with the scaffold.

36. (Previously Presented) A device as defined in claim 34 in which the scaffold has an interior chamber, the thrombus loaded with therapeutic material being contained within the chamber;

the scaffold having openings enabling communication between the thrombus, therapeutic material and surrounding tissue.

37. (Previously Presented) An implant as defined in claim 34 wherein the therapeutic material comprises at least one of cells, tissue, precursor cells, stem cells, cardiomyocytes, skeletal myoblasts and growth factors.

38. (Currently Amended) An implant for treating viable tissue ~~as defined in claim 34~~ comprising:

a scaffold structure implantable within the tissue, the scaffold having a geometry adapted to be retained within the tissue, the scaffold structure being configured to mechanically trigger an injury response in the tissue that leads to angiogenesis in the tissue;

thrombus associated with the implant, the thrombus being loaded with a therapeutic material whereby the thrombus provides a host matrix for the therapeutic material;

wherein the thrombus is disposed around the exterior of the device.

39. (Previously Presented) An implant as defined in claim 34 wherein the scaffold structure comprises an open cell foam structure.

40. (Previously Presented) An implant as defined in claim 34 wherein the scaffold comprises a tube formed of interwoven, oppositely coiled elongate members.

41. (Previously Presented) An apparatus as defined in claim 34 wherein the scaffold comprises a pellet.

42. (Currently Amended) An implant for treating viable tissue ~~as defined in claim 34~~ comprising:

a scaffold structure implantable within the tissue, the scaffold having a geometry adapted to be retained within the tissue, the scaffold structure being configured to mechanically trigger an injury response in the tissue that leads to angiogenesis in the tissue;

thrombus associated with the implant, the thrombus being loaded with a therapeutic material whereby the thrombus provides a host matrix for the therapeutic material;

wherein the therapeutic material comprises an inhibitor configured to inhibit tumor growth.